

# Electromedical and Electrotherapeutic Apparatus Manufacturing: 2002

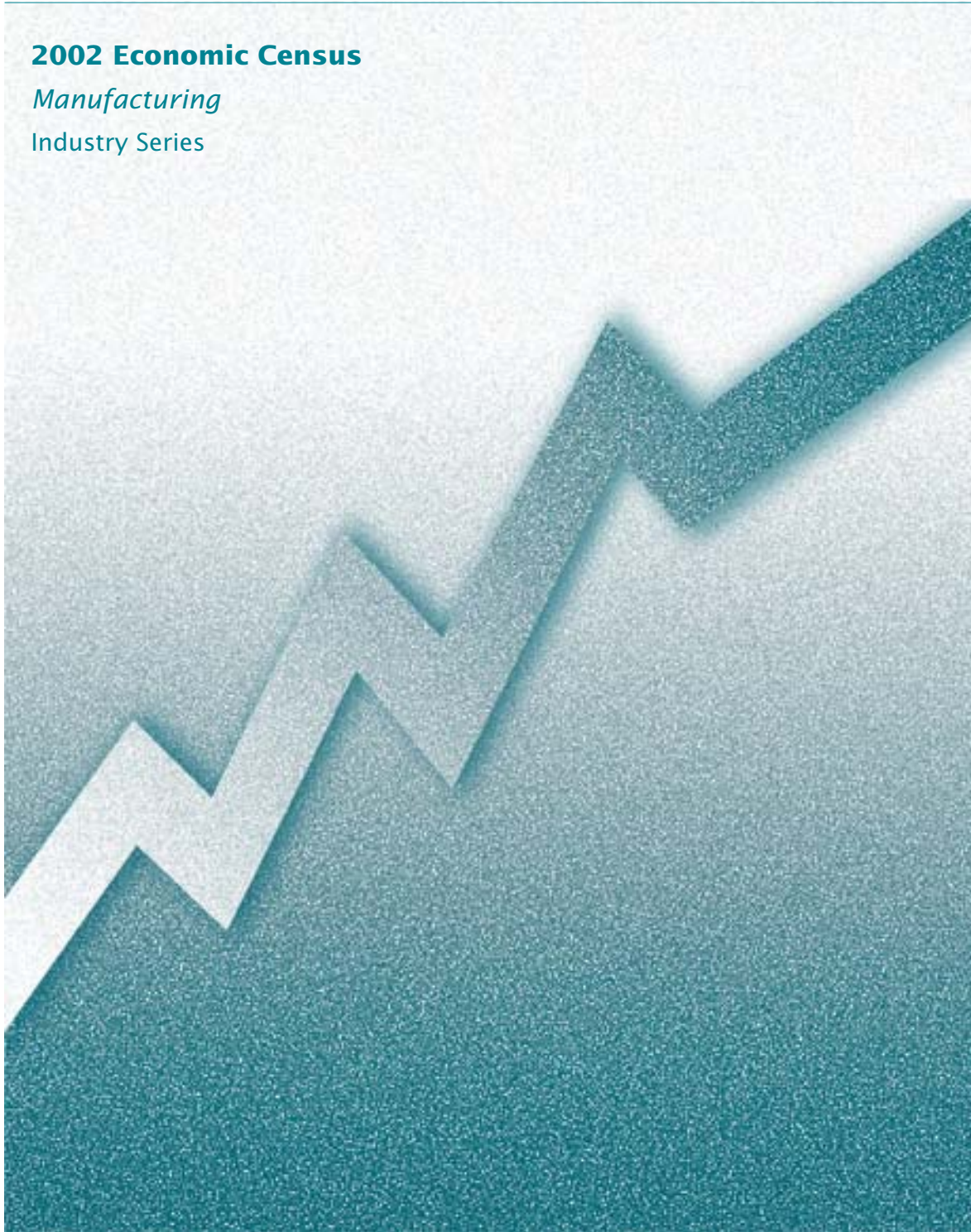
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## 2002 Economic Census

*Manufacturing*

Industry Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
334510, Electromedical and electrotherapeutic apparatus manufacturing .....	2002 ..	480	546	57 748	3 061 540	27 233	55 052	972 023	9 856 504	5 635 620	15 587 402	'455 399
2001 ..	N	N	N	54 972	2 769 106	24 760	49 661	775 923	8 631 308	5 041 905	13 642 648	374 877
2000 ..	N	N	N	52 334	2 675 439	23 531	47 554	736 652	8 269 567	4 709 819	12 909 458	363 001
1999 ..	N	N	N	53 237	2 588 044	22 785	45 745	715 266	7 706 455	4 409 001	12 166 114	351 717
1998 ..	N	N	N	55 333	2 670 194	24 127	48 775	756 629	7 886 308	4 156 163	11 959 013	440 843
1997 ..	490	547	N	55 044	2 635 085	24 724	50 363	741 374	7 619 290	3 995 354	11 581 624	432 245

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>334510, Electromedical and electrotherapeutic apparatus manufacturing</b>												
United States .....	1	546	278	57 748	3 061 540	27 233	55 052	972 023	9 856 504	5 635 620	15 587 402	'455 399
Alabama .....	—	5	4	408	21 267	212	403	8 981	45 790	23 880	65 445	'3 788
Arizona .....	2	6	3	694	39 637	301	504	10 588	15 897	69 504	86 184	'3 663
California .....	1	120	61	11 605	641 732	5 715	10 801	223 982	1 868 974	1 021 573	2 933 546	'68 185
Colorado .....	1	12	6	2 897	145 908	1 242	2 316	34 609	427 960	231 302	665 725	'14 859
Connecticut .....	5	16	6	1 285	69 306	565	1 090	16 715	221 919	92 758	321 290	'6 446
Florida .....	3	31	13	1 604	64 274	938	1 921	25 000	131 818	132 231	265 936	'6 026
Georgia .....	2	8	4	222	8 896	158	286	5 076	27 684	16 430	44 028	'476
Illinois .....	1	20	12	1 536	73 221	760	1 498	21 268	217 837	150 184	371 206	'4 996
Indiana .....	1	6	2	186	9 555	63	125	2 514	15 604	6 554	21 908	'1 120
Massachusetts .....	2	42	22	4 248	257 414	1 529	3 315	66 927	1 119 202	247 640	1 450 749	'57 552
Minnesota .....	—	42	29	8 771	460 488	4 305	9 257	159 586	2 212 369	557 969	2 785 513	'85 748
New Jersey .....	3	18	14	2 089	109 586	978	1 735	32 864	339 141	214 183	553 505	'14 803
New York .....	—	29	11	1 051	52 171	390	819	11 955	174 850	82 351	258 902	'7 502
North Carolina .....	9	8	1	104	4 834	43	75	1 121	12 147	5 899	18 058	'377
Oregon .....	—	12	6	1 361	57 577	826	892	31 382	145 177	99 186	251 933	'3 681
Pennsylvania .....	—	19	11	2 292	127 370	868	1 740	26 778	306 711	147 318	447 572	'10 178
Texas .....	—	20	12	1 851	109 138	767	1 608	22 783	290 894	59 964	357 127	'16 022
Washington .....	1	19	14	5 127	327 108	1 278	2 674	44 468	751 239	914 751	1 638 672	'38 141
Wisconsin .....	—	19	14	3 216	208 850	1 287	2 601	82 406	695 435	950 713	1 612 708	'25 787

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>334510, Electromedical and electrotherapeutic apparatus manufacturing</b>	
Companies <sup>1</sup> .....	number.. 480
All establishments <sup>2</sup> .....	number.. 546
Establishments with 1 to 19 employees .....	number.. 268
Establishments with 20 to 99 employees .....	number.. 143
Establishments with 100 employees or more .....	number.. 135
All employees <sup>3</sup> .....	number.. 57 748
Total compensation .....	\$1,000.. 3 731 333
Annual payroll .....	\$1,000.. 3 061 540
Total fringe benefits .....	\$1,000.. 669 793
Production workers, average for year .....	number.. 27 233
Production workers on March 12 .....	number.. 26 875
Production workers on May 12 .....	number.. 27 420
Production workers on August 12 .....	number.. 27 647
Production workers on November 12 .....	number.. 26 938
Production worker hours .....	1,000.. 55 052
Production worker wages .....	\$1,000.. 972 023
Total cost of materials .....	\$1,000.. 5 635 620
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 5 120 460
Resales .....	\$1,000.. 373 406
Purchased fuels .....	\$1,000.. 9 139
Purchased electricity .....	\$1,000.. 46 717
Contract work .....	\$1,000.. 85 898
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 750 867
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 16 095
Total value of shipments .....	\$1,000.. 15 587 402
Primary products value of shipments .....	\$1,000.. 14 379 323
Secondary products value of shipments .....	\$1,000.. 478 775
Total miscellaneous receipts .....	\$1,000.. 729 304
Value of resales .....	\$1,000.. 549 021
Contract receipts .....	\$1,000.. 14 263
Other miscellaneous receipts .....	\$1,000.. 166 020
Primary products specialization ratio .....	percent.. 97
Value of primary products shipments made in all industries .....	\$1,000.. 14 995 108
Value of primary products shipments made in this industry .....	\$1,000.. 14 379 323
Value of primary products shipments made in other industries .....	\$1,000.. 615 785
Coverage ratio .....	percent.. 96
Value added .....	\$1,000.. 9 856 504
Total inventories, beginning of year .....	\$1,000.. 2 191 839
Finished goods inventories .....	\$1,000.. 794 263
Work-in-process inventories .....	\$1,000.. 493 489
Materials and supplies inventories .....	\$1,000.. 905 917
Total inventories, end of year .....	\$1,000.. 2 113 886
Finished goods inventories .....	\$1,000.. 711 160
Work-in-process inventories .....	\$1,000.. 481 314
Materials and supplies inventories .....	\$1,000.. 923 242
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '3 884 532
Total capital expenditures (new and used) .....	\$1,000.. '455 399
Buildings and other structures (new and used) .....	\$1,000.. '77 994
Machinery and equipment (new and used) .....	\$1,000.. '377 405
Automobiles, trucks, etc., for highway use .....	\$1,000.. '7 223
Computers and peripheral data processing equipment .....	\$1,000.. '66 143
All other expenditures for machinery and equipment .....	\$1,000.. '304 039
Total retirements .....	\$1,000.. '218 072
Gross value of depreciable assets at end of year .....	\$1,000.. '4 121 859
Depreciation charges during year .....	\$1,000.. '341 123
Total rental payments .....	\$1,000.. 191 448
Buildings and other structures .....	\$1,000.. 131 751
Machinery and equipment .....	\$1,000.. 59 697
Total other expenses <sup>4</sup> .....	\$1,000.. 1 004 667
Response coverage ratio <sup>5</sup> .....	percent.. 79
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 43 156
Communications services <sup>4</sup> .....	\$1,000.. 34 950
Legal services <sup>4</sup> .....	\$1,000.. 35 500
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 12 662
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 70 526
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 34 649
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 4 201
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 76 248
Taxes and license fees <sup>4</sup> .....	\$1,000.. 29 136
All other expenses <sup>4</sup> .....	\$1,000.. 663 640

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
334510, Electromedical and electrotherapeutic apparatus manufacturing											
All establishments .....	1	546	57 748	3 061 540	27 233	55 052	972 023	9 856 504	5 635 620	15 587 402	'455 399
Establishments with—											
1 to 4 employees .....	8	148	282	12 285	159	248	3 550	31 695	12 189	43 864	'872
5 to 9 employees .....	7	59	403	21 369	181	347	5 758	62 303	25 536	87 842	'1 926
10 to 19 employees .....	5	61	846	44 981	383	728	11 795	105 245	43 313	149 616	'3 110
20 to 49 employees .....	1	87	2 902	147 878	1 312	2 576	43 671	443 541	203 919	645 983	'20 961
50 to 99 employees .....	3	56	4 119	208 670	2 043	4 104	68 141	538 868	247 934	784 827	'16 453
100 to 249 employees .....	2	75	12 233	656 374	5 654	11 116	206 252	1 955 947	1 400 984	3 344 629	'116 491
250 to 499 employees .....	1	35	12 088	680 322	5 069	9 769	203 108	1 776 047	1 440 353	3 214 650	'88 366
500 to 999 employees .....	1	16	11 908	587 652	6 560	13 045	218 291	1 227 981	788 621	2 027 280	'54 923
1,000 to 2,499 employees .....	—	9	12 967	702 009	5 872	13 119	211 457	3 714 877	1 472 771	5 288 711	152 297
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	179	736	37 679	355	657	9 254	99 946	41 438	141 387	'2 958

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	546	57 748	3 061 540	27 233	55 052	972 023	9 856 504	5 635 620	15 587 402	'455 399
3345101	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment) .....	263	48 492	2 617 395	21 827	44 340	779 813	8 867 162	5 016 674	13 968 116	'404 868
3345103	Electronic hearing aids, complete units .....	41	5 780	263 749	3 840	7 837	140 444	598 613	418 760	1 022 896	'23 483

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	2002.. N	X	X	14 995 108
	..... 1997.. N		X	X	10 424 529
3345101	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment) .....	2002.. N	X	X	13 613 433
	..... 1997.. N		X	X	9 414 822
33451011	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment) .....	2002.. N	X	X	13 613 433
	..... 1997.. N		X	X	9 414 822
3345101100	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment) <sup>1</sup> .....	2002.. 283	X	X	13 613 433
	..... 1997.. 245		X	X	9 414 822
3345103	Electronic hearing aids, complete units .....	2002.. N	X	X	833 167
	..... 1997.. N		X	X	585 336
33451031	Electronic hearing aids, complete units .....	2002.. N	X	X	833 167
	..... 1997.. N		X	X	585 336
3345103100	Electronic hearing aids, complete units <sup>1</sup> .....	2002.. 25	X	X	833 167
	..... 1997.. 26		X	X	585 336
334510W	Electromedical and electrotherapeutic apparatus manufacturing, nsk, total .....	2002.. N	X	X	548 508
	..... 1997.. N		X	X	424 371
334510WY	Electromedical and electrotherapeutic apparatus manufacturing, nsk, total .....	2002.. N	X	X	548 508
	..... 1997.. N		X	X	424 371
334510WYWW	Electromedical and electrotherapeutic apparatus manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	393 547
	..... 1997.. N		X	X	276 175
334510WYWY	Electromedical and electrotherapeutic apparatus manufacturing, nsk, for administrative-record establishments .....	2002.. N	X	X	154 961
	..... 1997.. N		X	X	148 196

<sup>1</sup>For additional detail, see Current Industrial Report MA334S, Electromedical and Irradiation Equipment.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3345101	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment)	
	United States..... 2002..	13 613 433
	..... 1997..	9 414 822
	Alabama..... 2002..	120 069
	..... 1997..	N
	Arizona..... 2002..	109 936
	..... 1997..	114 922
	California..... 2002..	2 577 555
	..... 1997..	2 030 684
	Colorado..... 2002..	570 248
	..... 1997..	665 507
	Connecticut..... 2002..	308 996
	..... 1997..	107 987
	Florida..... 2002..	194 818
	..... 1997..	268 386
	Georgia..... 2002..	8 259
	..... 1997..	N
	Illinois..... 2002..	184 269
	..... 1997..	102 214
	Indiana..... 2002..	15 611
	..... 1997..	N
	Massachusetts..... 2002..	1 456 295
	..... 1997..	1 156 672
	Minnesota..... 2002..	2 304 572
	..... 1997..	1 032 985
	New Jersey..... 2002..	298 968
	..... 1997..	226 297
	New York..... 2002..	315 047
	..... 1997..	190 814
	Pennsylvania..... 2002..	322 819
	..... 1997..	174 767
	Texas..... 2002..	288 563
	..... 1997..	322 619
	Washington..... 2002..	1 510 274
	..... 1997..	790 156
	Wisconsin..... 2002..	1 503 345
	..... 1997..	998 094
3345103	Electronic hearing aids, complete units	
	United States..... 2002..	833 167
	..... 1997..	585 336
	California..... 2002..	137 626
	..... 1997..	57 802
	Florida..... 2002..	38 394
	..... 1997..	31 057
	Minnesota..... 2002..	275 296
	..... 1997..	304 824
	New Jersey..... 2002..	134 288
	..... 1997..	41 882

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334510	Electromedical and electrotherapeutic apparatus manufacturing		
00900001	Total materials .....2002..	X	5 120 460
	.....1997..	X	3 485 274
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	107 063
	.....1997..	X	61 703
332000AC	Metal stampings .....2002..	X	32 644
	.....1997..	X	N
33200041	All other fabricated metal products (excluding forgings) .....2002..	X	180 841
	.....1997..	X	N
33210000	Forgings .....2002..	X	36 858
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	17 669
	.....1997..	X	20 620
33120031	Stainless steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	13 291
	.....1997..	X	N
33120043	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	139 562
	.....1997..	X	27 541
33441105	Transmittal, industrial, and special-purpose electron tubes (excluding X-ray) .....2002..	X	D
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	273 807
	.....1997..	X	N
33441400	Capacitors for electronic circuitry .....2002..	X	86 276
	.....1997..	X	N
33441500	Resistors for electronic circuitry .....2002..	X	72 587
	.....1997..	X	N
33441700	Connectors for electronic circuitry .....2002..	X	76 872
	.....1997..	X	N
001900C2	Other electronic components and accessories .....2002..	X	378 694
	.....1997..	X	N
331000A1	Insulated wire and cable (excluding magnet wire) .....2002..	X	119 211
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	179 411
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	101 297
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	2 599 845
	.....1997..	X	2 908 246
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	680 016
	.....1997..	X	467 164

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.